

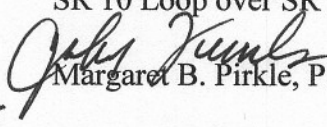

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** P. I. No. 122600, Athens-Clarke County **OFFICE** Preconstruction  
STP-014-1(70)  
SR 10 Loop over SR 10/US 78 Bus/US 78 **DATE** December 7, 2005  
**FROM**  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction  
**TO**  SEE DISTRIBUTION

**SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

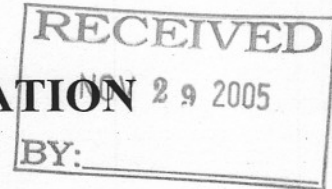
MBP/cj

Attachment

**DISTRIBUTION:**

Brian Summers  
Harvey Keepler  
Ken Thompson  
Jamie Simpson  
Michael Henry  
Keith Golden  
Joe Palladi (file copy)  
Babs Abubakari  
Ben Buchan  
Russell McMurry  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**



**INTERDEPARTMENT CORRESPONDENCE**

**FILE** STP-014-1(70), Athens-Clarke County  
SR10 Loop over Lexington Hwy (SR10/US78 Bus/US78)  
P.I. No. 122600  
**OFFICE** Urban Design  
**DATE** November 15, 2005

**FROM** *James B. Buchan*  
James B. Buchan, P.E., State Urban Design Engineer

**TO** Meg Pirkle, P.E., Assistant Director of Preconstruction

**SUBJECT** Revised Project Concept Report

Attached is the original copy of the revised Concept Report for your further handling and approval according to the Plan Development Process (PDP).

This revised concept proposes to remove the existing northbound on/off ramps of SR10 Loop (Paul Broun Parkway) to US78 (Lexington Highway), in the southeast and northeast quadrants, and construct two new northbound on/off ramps, in the northeast quadrant, to tie into the existing signalized intersection at Barnett Shoals Road. The northbound off-ramp from SR10 Loop (Paul Broun Parkway) to US78 (Lexington Highway) will be reconstructed to bridge Lexington Highway and be aligned to the existing signalized intersection at Barnett Shoals Road. The on-ramp to northbound SR10 Loop will be reconstructed and aligned with the existing signalized intersection at Barnett Shoals Road and bridge the existing CSX right-of-way. This revised concept will allow for a more controlled and less restricted east/west movement through the interchange along Lexington Highway and better access to and from SR10 Loop.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTIP) and/or the State Transportation Improvement Program (STIP).

11/30/05  
Date

*Joseph P. Palladi*  
State Transportation Planning Administrator

JBB:JNA *AVS*

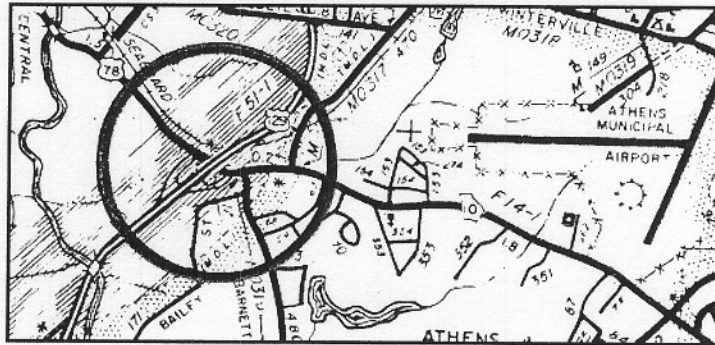
**Distribution:**

Brian Summers, Project Review Engineer  
Harvey Keepler, State Environmental/Location Engineer  
Keith Golden, State Traffic Safety and Design Engineer  
Joe Palladi, State Transportation Planning Administrator  
Hal Wilson, State Programming Administrator  
Russell McMurry, District 1 Engineer  
Paul Liles, State Bridge Design Engineer

## REVISED PROJECT CONCEPT REPORT

**Need and Purpose:** This project is an interchange reconstruction to alleviate congestion created on Lexington Highway (SR10/US78 Bus./US78) by the close proximity of Barnett Shoals Road and northbound SR10 Loop (Paul Broun Parkway) on/off ramps.

**Project location:** This project is located in Athens-Clarke County at the interchange of SR10 Loop (Paul Broun Parkway) over Lexington Highway (SR10/US78 Bus./US78). The proposed length of the project is 0.7 miles along Lexington Highway from the intersection of Oconee Street and Oak Street (MP 9.58) to Winterville Road (MP 10.28) and 1.2 miles along SR10 Loop from just south of the northbound off-ramp (MP 13.7) to just north of the railroad overpass bridge (MP 12.5).



**Description of the approved concept:** The approved revised concept, dated May 28, 2002, proposes to widen Lexington Highway from a 4-lane divided roadway with a 20' raised median to a 6-lane divided roadway with a 20' raised median. The intersection at Grove Street will be converted to a right-in/right-out, and the corresponding median openings will be closed. This concept also proposes to remove the existing northbound on/off-ramps of SR10 Loop (Paul Broun Parkway) to Lexington Highway, and construct two northbound off-ramps to be right-out. The on-ramp to northbound SR10 Loop will be reconstructed and aligned with the existing signalized intersection at Barnett Shoals Road and bridge the existing CSX spur line. (See figure 1).

**PDP Classification:**

Full Oversight ( ), Exempt ( X ), State Funded ( ), or Other ( )

**Fuctional Classification:** Urban Principal Arterial

**U.S. Route Number(s):** US29, US78, US78 Business, US129, & US441

**State Route Number(s):** SR8, SR10, SR10 Loop, & SR15

**Traffic (AADT):**



Current Year: 20,250 (1999)

Design Year: 30,250 (2019)

**Proposed features to be revised:** Due to severe congestion and increased traffic volumes along Lexington Highway through the SR10 Loop interchange, the following features need to be revised from the approved Concept Report, dated May 28, 2002:

1. Revise the proposed alignment of the SR10 Loop northbound on/off ramps.
2. Revise access control points along Lexington Highway.

**Describe the revised feature(s) to be approved:**

1. Realign the northbound off-ramp from northbound SR10 Loop to begin in the southeast quadrant, bridge US78 (Lexington Highway), and loop in the northeast quadrant to align with the Barnett Shoals Road intersection at Lexington Highway.
2. The access control point for the existing off-ramp from northbound SR10 Loop to eastbound US78 will be converted to a two-lane exit ramp for eastbound and westbound traffic.

**Updated traffic data (AADT)**

Current Year: 52,900 (2009)

Design Year: 84,700 (2029)

**Programmed/Schedule:**

P.E: \$452,000 / 1994 R/W: \$595,000 / 2006 Construction: \$3,492,309 / 2007

**Revised cost estimates:**

1. Construction cost (E&C & inflation) - \$3,500,000

Is the project located in the Non-attainment area?      Yes   X   No.

**Recommendation:**

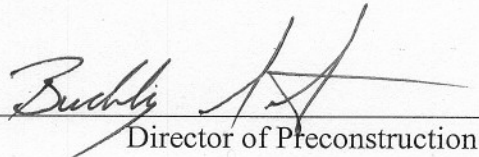
Recommend that the revisions to the approved revised concept be approved for implementation.

**Attachments:**

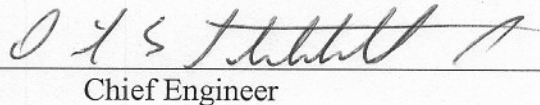
1. Sketch Maps (figures 1 & 2)
2. Cost Estimate (dated February 5, 2005)
3. Revised Concept Report (approval date May 28, 2002)
4. Typicals (Lexington Highway roadway to include under bridges 5R & 5L)
5. Traffic data (ADT, DHV)

**Exempt projects:**

Concur: \_\_\_\_\_

  
Director of Preconstruction

Approve: \_\_\_\_\_

  
Chief Engineer

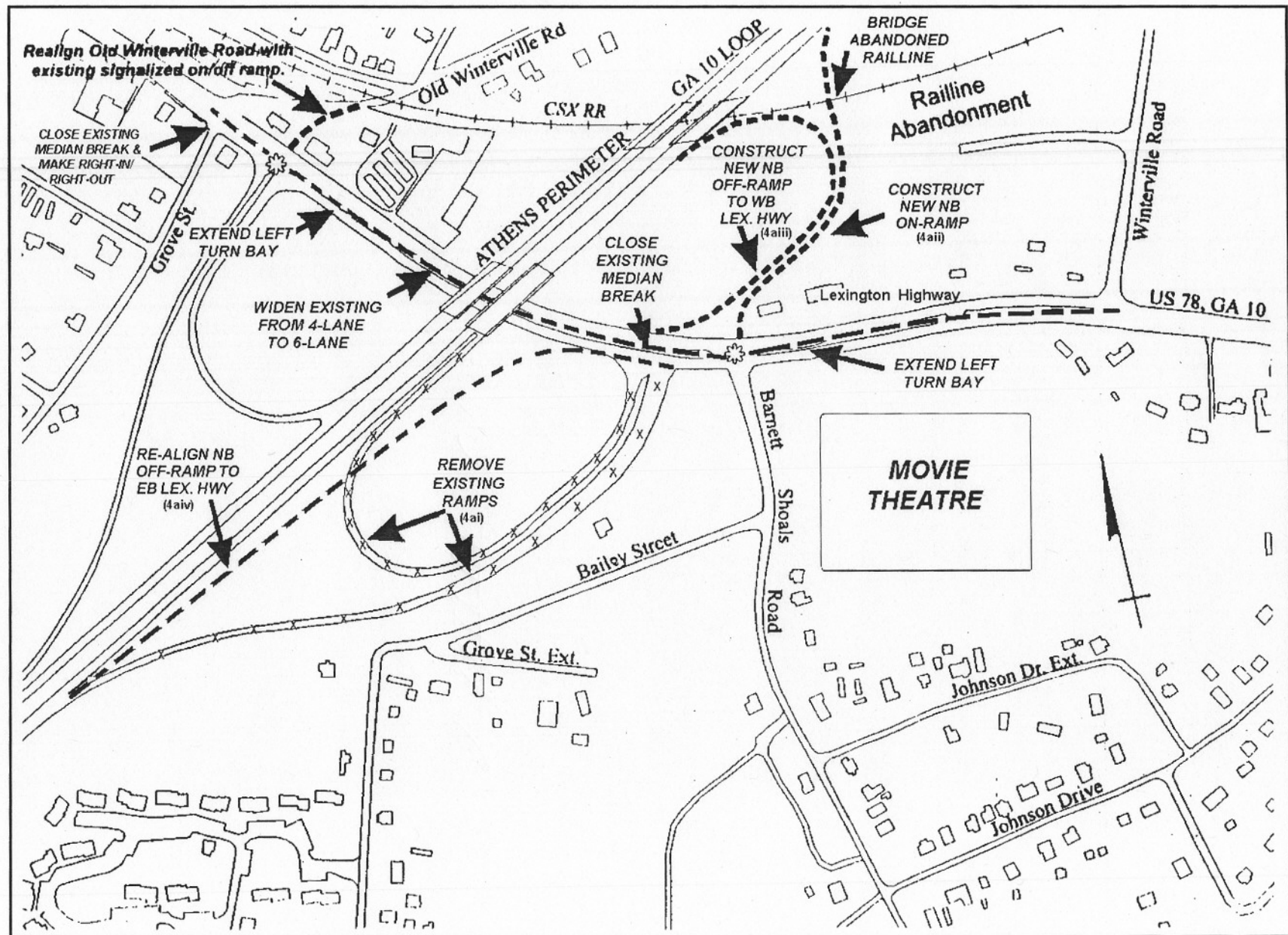


figure 1: Revised Concept Sketch  
May 28, 2002

STP-014-1(70) CLARKE COUNTY  
P.I. NO. 122600





## PRELIMINARY COST ESTIMATE

URBAN DESIGN, Group 6

### SR10 Loop (Paul Broun Parkway) over Lexington Highway (SR10/US78 Bus./US78)

DATE: February 5, 2005

UPDATE: July 11, 2005

PREPARED BY: Phil Magoon

UPDATED BY: Nicoe Alexander

PROJECT NO.: STP-014-1(70) Clarke

FILE NAME: Preliminary Cost Estimate

P.I. NO.: 122600

MILEAGE: 0.70 miles

**PROJECT DESCRIPTION/CONCEPT:**

Lexington Highway widening from 4 lanes to 6 lanes  
New on/off ramps for SR10 Loop onto Lexington Hwy  
Realignment of off-ramp for SR10 Loop onto Lexington Hwy  
Realignment of Old Winterville Road  
New bridge over abandoned CSX RR Spur Line

**EXISTING ROADWAY:** Lexington Highway (SR10/US78 Bus./US78) 4 lanes with raised median  
SR10 Loop (Paul Broun Parkway) 4 lanes with divided median

**TRAFFIC:**

**CURRENT ADT**  
52,900 (2009)

**PROJECTED ADT**  
84,700 (2029)

- ☐ PROGRAMMING PROCESS  
☒ CONCEPT DEVELOPMENT  
☒ DURING PROJECT DEVELOPMENT

**PROJECT COSTS:**

A. RIGHT OF WAY			lump sum			\$595,000
				<b>SUBTOTAL</b>		<b>\$595,000</b>
B. UTILITIES (Reimbursable)			lump sum			\$300,000
				<b>SUBTOTAL</b>		<b>\$300,000</b>
C. CLEARING AND GRUBBING	14	acres	@	\$9,400		\$134,042
				<b>SUBTOTAL</b>		<b>\$134,042</b>
D. EARTHWORK						
Unclassified Excavation	32972	cu yd	@	\$4		\$131,886
				<b>SUBTOTAL</b>		<b>\$131,886</b>
E. BASE AND PAVING						
<u>Asphalt Paving</u>						
12.5 mm Superpave	1915	tons	@	\$50		\$95,749
19 mm Superpave	2553	tons	@	\$45		\$114,899
25 mm Superpave	3830	tons	@	\$40		\$153,199
Bituminous Tack Coat	928	gallons	@	\$1		\$1,337
Leveling		tons	@	\$41		
<u>Aggregate Base</u>						
Graded Aggregate Base 10"	12702	tons	@	\$12		\$150,266
				<b>SUBTOTAL</b>		<b>\$515,451</b>



# F. DRAINAGE

## Drainage Lump Sum

Cost per Mile	2	miles	@	\$250,000	\$412,145
				<b>SUBTOTAL</b>	<b>\$412,145</b>

# G. CONCRETE WORK

Curb and Gutter (Type 2)	7392	lin. ft.	@	\$11	\$82,421
4" Sidewalk	4106	sy	@	\$19	\$78,342
Concrete Parapet, Spcl Design	300	lin. ft.	@	\$75	\$22,500
				<b>SUBTOTAL</b>	<b>\$183,263</b>

# H. TRAFFIC CONTROL

lump sum \$73,597

**SUBTOTAL \$73,597**

# I. EROSION CONTROL

lump sum \$29,439

**SUBTOTAL \$29,439**

# J. GUARDRAIL

W-Beam Rail	5000	lin ft	@	\$11	\$53,100
T-Beam Rail	120	lin ft	@	\$28	\$3,344
Type 1 Anchors	2	each	@	\$426	\$852
Type 12 Anchors	2	each	@	\$1,574	\$3,149
				<b>SUBTOTAL</b>	<b>\$60,445</b>

# K. SIGNS, STRIPPING, SIGNALS, LIGHTING

Striping				lump sum	\$10,486
Roadside Signs				lump sum	\$5,993
Traffic Signals	2	each	@	\$50,000	\$100,000
Lighting				lump sum	\$0
				<b>SUBTOTAL</b>	<b>\$116,479</b>

# L. GRASSING/LANDSCAPING

lump sum \$2,944

**SUBTOTAL \$2,944**

# M. MICELLANEOUS

Field Engineers Office Tp. 2	1	each	@	\$28,000	\$28,000
Fencing	3500	lin ft	@	\$19	\$65,450
Right-of-Way Markers	50	each	@	\$66	\$3,319
				<b>SUBTOTAL</b>	<b>\$96,769</b>

# N. MAJOR STRUCTURES

Bridges						
Ramp A	320' x 36'	11520	sq. ft.	@	\$60	\$691,200
Ramp B	200' x 36'	7200	sq. ft.	@	\$60	\$432,000
Walls				@		\$0
SUBTOTAL						\$1,123,200

### ESTIMATE SUMMARY

A. Right of Way	\$595,000
B. Reimbursable Utilities	\$300,000

### **CONSTRUCTION COST SUMMARY**

C. Clearing and Grubbing	\$134,042
D. Earthwork	\$131,886
E. Base and Paving	\$515,451
F. Drainage	\$412,145
G. Concrete Work	\$183,263
H. Traffic Control	\$73,597
I. Erosion Control	\$29,439
J. Guardrail	\$60,445
K. Signs, Striping, Signals, Lighting	\$116,479
L. Grassing / Landscaping	\$2,944
M. Miscellaneous	\$96,769

**SUBTOTAL CONSTRUCTION      \$1,756,461**

N. Major Structures	\$1,123,200
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**SUBTOTAL      \$2,879,661**

2      years of inflation at      5      %      \$295,165

10 % E & C      \$317,483

**TOTAL CONSTRUCTION ESTIMATE:      \$3,492,309**